ADITHYA AWATI

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WORK EXPERIENCE

CellStrat AI — Bengaluru, India
Intern — December 2022 - March 2023
- Leveraged cloud-based platform to develop and deploy machine learning models efficiently.
- Designed and implemented inference endpoints using RESTful APIs services on the platform seamlessly.
- Built robust machine learning models for consumer complaint classification and customer lifetime value prediction, enhancing customer experience and marketing strategies.

PROJECTS

DROPEX (*In progress*) — Github link
Pytorch, Raspberry PI, AirSim (simulation), Bash, Swarm Intelligence, Cassandra (AstraX DB)
- A disaster-response and probing technology used for rescuing humans in distress by dropping relief materials with Intelligent Drones.
- A swarm of intelligent Drones connected over LoRA network survey the flood affected area. Detect Humans with Object Detection models using Thermal Sensors and help containing the disaster expansion.
- The Payload Drone drops package at GPS assigned locations with Electromagnet system.

Farmsense.ai — Github link
XGBoost, Tensorflow, Docker, ReactJS, FastAPI, NginX, AWS EC2
- Farmsense.ai is an AI assistant for exponentially growing Hybrid farming.To enhance farmers' yield, this application assists them by detecting diseases of plants and poultries and providing crop and egg incubation analysis.
- Features: Plant and Poultry disease detection, Egg Incubation and crop yield analsysis

Hackme — Github link
Python, FastAPI, Azure, Github Actions, Firebase, Jinja2, PIL, Docker, pre-commit
- A minimalistic open-source web-application that serves as hackathon registration and participant status monitoring.
- It provides instant QR code registration and automated participant status management.

SKILLS

Languages:	Python, C, C++, Java, Bash, SQL, HTML, CSS, Maxima, RESTful
Tools:	Tensorflow, Pytorch, FastAPI, optuna, git, sckit-learn, pandas, nltk, fastapi, langchain, docker, scrappy, seaborn, plotly, Robotic Process Automation
Platform:	GitHub, AWS, Azure, Neptune, Linux, Firebase, MongoDB, Tableau, SkySQL, W&B, Gradio, Linux, Windows, streamlit, HuggingFace
IDE:	VSCode, IntelliJ Idea, PyCharm, Eclipse, VIM, nano
Soft Skills:	Problem Solving, adaptability, active listening, leadership, team-work, curiosity, punctuality.
Others:	Logo Designing, content writing, poetry, harmonica, sudoku expert, web surfing, video game.

ACHIEVEMENTS

Seimens Ideathon 2023: 2nd Place — *Siemens*
Developed an AI-based HMI plugin tool that helps clients decrease complexity and enhance creativity. It's powered by SOTA GAN model(DragGAN) and image to text LLM for feature improvements. November 2023

HacktoberFest: Level-4 Contributor — *DigitalOcean*
Consistently demonstrated a passion for open-source development by actively contributing to over 10 pull requests in Python and Bash shell-based repositories during Hacktoberfest 2022 and 2023. October 2023.

Police Hackathon- Top 15 — *Hack2Skill*
Problem statement on unified data verification. Created a prototype KSPOne which implements a dashboard and name search with SIFT algorithm. A CNN based algorithm for fingerprint and face matching. Jan 2023

EDUCATION

QubitxQubit (REMOTE) — Los Angeles, California, US
Coding School- Quantum Computing (2 Semesters) — September 2023 - Present
Dayananda Sagar College Of Engineering — Kumaraswamy Layout, Bengaluru, India
BE Artificial Intelligence and Machine Learning *CGPA: 9.3* — December 2021 - Present

CERTIFICATIONS

- **Machine Learning Specialization** DeepLearning.AI
  Trained and guided by renowned instructor Andrew NG. Completed course on Feb 2023 on Coursera.
  Skills gained: Supervised, unsupervised and reinforcement learning algorithms, Recommender Systems.

- **Data Analysis with Python** FreeCodeCamp.org
  Completed 5 data analysis projects on various real-world datasets in May 2023.
  Skills gained: Numpy, scipy, pandas, matplotlib, seaborn, plotly, SQL

- **Langchain & Vector DB in Production** Activeloop
  Hands-on training on leveraging LLMs and setting up vector databases to develop and deploy AI apps
  Skills gained: Prompt Engineering, streamlit, LLMs, RAGs, VectorStore, OpenAI, Langchain

EXTRACURRICULAR EXPERIENCE

- **Project IVY** Unify AI
  1. Ivy unifies all ML frameworks enabling you not only to write code that can be used with any of these frameworks as the backend.
  2. Implemented 'clip' math and 'fftfreq' FFT functions as frontend api in paddle framework and tested both for multiple backend frameworks.

- **Hack Aventus - National Hackathon** DSCE
  1. Co-ordinated and contributed in organizing a successful hackathon.
  2. In charge of tech team as Lead in developing a Checkin-checkout, registration and participant management system with just a simple QR code interface!